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SHARP 21H-FG5RU OPERATION MANUAL

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P®

COLOUR TELEVISION

MODEL
21H-FG5RU

■OPERATION MANUAL■

Please read this operation manual carefully before using the colour television.

TINS-B328WJZZ
04P06-MSF

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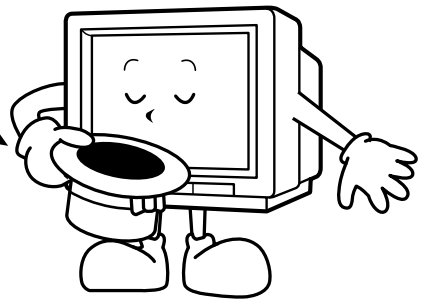
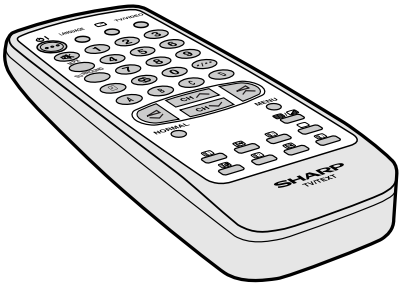
Dear SHARP Customer

Thank you for buying SHARP's Colour Television. We hope you will have many years of enjoyment from this television set. To ensure proper operation, please read this manual carefully, and keep it in a safe place for future reference.

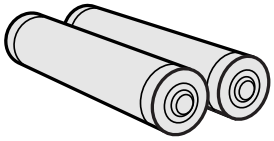


Accessories

The following accessories are included with this television.



Remote control



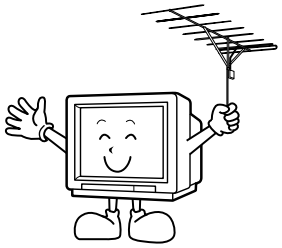
Size-AA batteries

Operation manual

Easy setup

To use your TV set, perform the easy setup procedure below.
The mark indicates the page numbers with more detailed information.

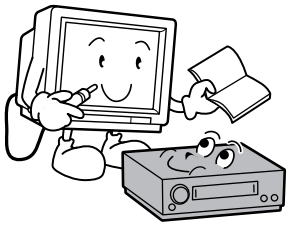
1



Connect the antenna.

- See **29** to connect the antenna.

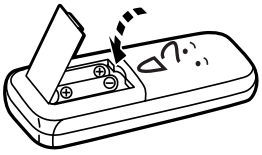
2



Connect any video equipment.

- See **29** , **30** to connect video equipment.
- See the operation manual of your video equipment when connecting to the TV set.

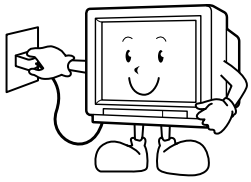
3



Insert the batteries into the remote control.

- Use the two batteries included with the TV.
- See **6** .

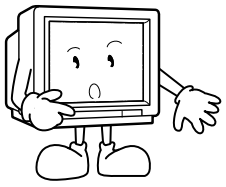
4



Insert the AC plug to the power outlet.

- If you will not use the TV set for a considerable length of time, as a safety precaution, unplug the cord from the outlet.

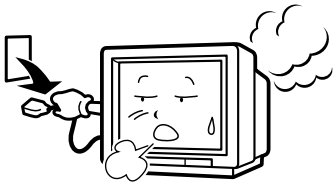
5



Tune the channels.

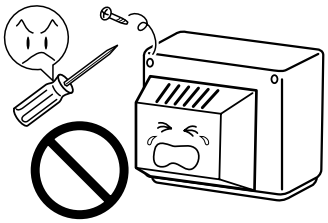
- Use the buttons on the TV.
- See **14** , **15** .

Safety precautions



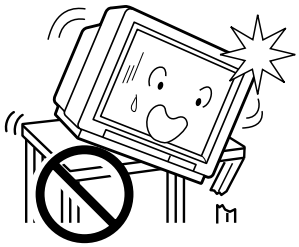
Damage

Turn off the power and unplug the power cord from the wall outlet immediately if the TV set begins to make any unusual noises or gives off smoke or an unusual smell. Then call your dealer for service.



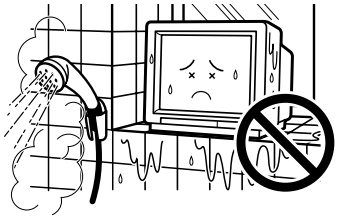
Servicing

To reduce the risk of electric shock, do not remove the back of the cabinet. This TV set contains dangerous voltage.



Unstable surface and shocks

Do not place this TV set on an unstable cart, stand, shelf, or table. The TV set may fall, causing serious injury to a child or adult, and serious damage to the set.
Sharp recommends securing the TV set to a stable surface or wall to prevent the set from falling due to sudden shocks or impact.

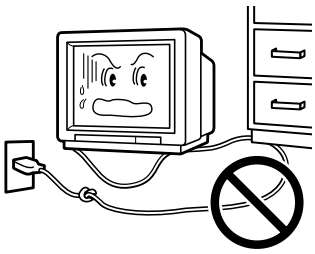


Water

To prevent fire or electrical shock, do not place the TV set near a bathroom, swimming pool or other area where it may become wet.

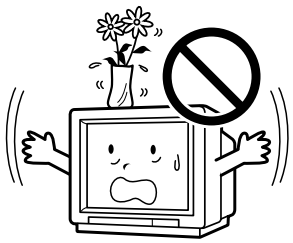
Moisture

To prevent electrical shock, do not use the TV set in an excessively damp place.



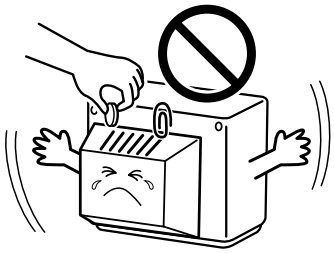
Power-cord protection

To prevent electrical shock, do not subject the AC power cord to damage by bending or twisting it, or by placing heavy items on top of it and do not place the AC power cord under the TV set. If the AC power cord becomes damaged, unplug it from the wall outlet immediately and call your dealer for service.



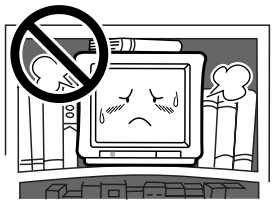
Liquid entry

Do not place a flower vase or anything else containing liquid on the TV set, as liquid spilt on the TV set can cause electrical shock or failure.



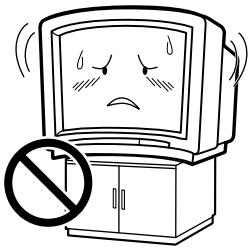
Object entry

Never insert or drop any metallic or inflammable objects into the ventilation openings of the TV set, as this can cause fire, electrical shock, or electrical failure.



Ventilation

Do do not place this TV set in a confined area, such as on a bookshelf or in a built-in case. Leave adequate space behind the TV for proper ventilation.

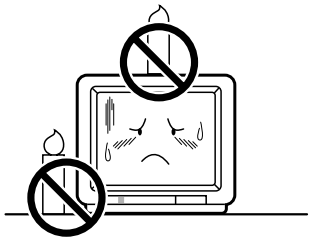


TV Set position

Do place the TV set onto an even stand, table or track which size is bigger than the TV set.
If the TV set is put onto a smaller size or uneven stand, table or track may cause the TV cabinet distort.
Do not put or insert anything between TV set and the stand, table or track.

Uneven surface and excessive force

Television equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.



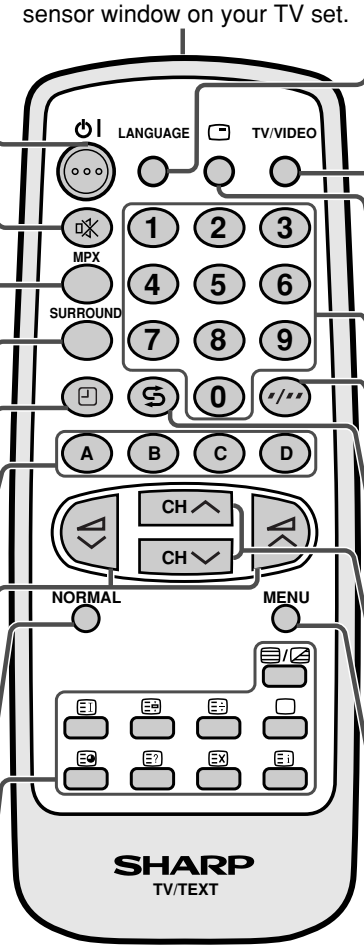
Fire prevention

To prevent fire, never place any type of candle or naked flames on the top or near the TV set.

Part names

The mark indicates the page numbers with more detailed information.

Remote control



Infrared Transmitter Window
Aim this window at the infrared sensor window on your TV set.

8 ⏻
Turns the TV on or to Standby mode.

10
Mutes the sound and restores sound to previous level.

MPX **25**
Switches between main and sub sound, and stereo and monaural sound.

SURROUND **21**
Produces a more spacious sound.

22
Calls the TIMER screen

Colour buttons **21** / **27**
Operate the Favourite Channel and Teletext functions.

8
Adjusts the volume. Used for MENU setup.

NORMAL **17**
Resets all settings.

Teletext buttons **27**
Operate the Teletext functions.

13 **LANGUAGE**
Changes the on-screen display language

11 **TV/VIDEO**
Switches between TV broadcasts and A/V input programmes.

10
Displays the channel and timer settings on the screen.

8 **Number** buttons

8
Switches between one- or two-digit mode channel selection.

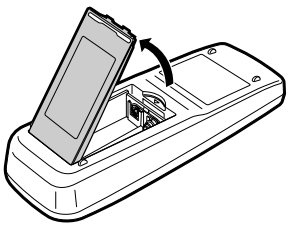
11
Returns to previously viewed channel.

8 **CH** / **CH**
Selects the channel. Used for MENU setup.

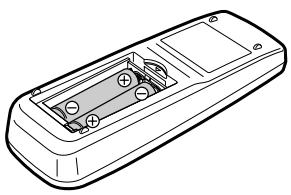
12 **MENU**
Calls the MENU screen.

Installing batteries in the remote control unit

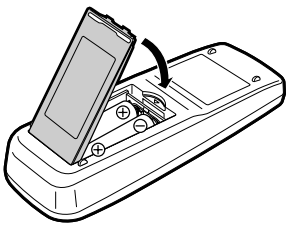
1 With your thumbnail, pull up at the slit to open the battery cover.



2 Insert two batteries (size AA).



3 Replace the battery cover.

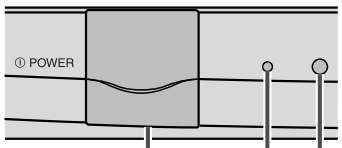


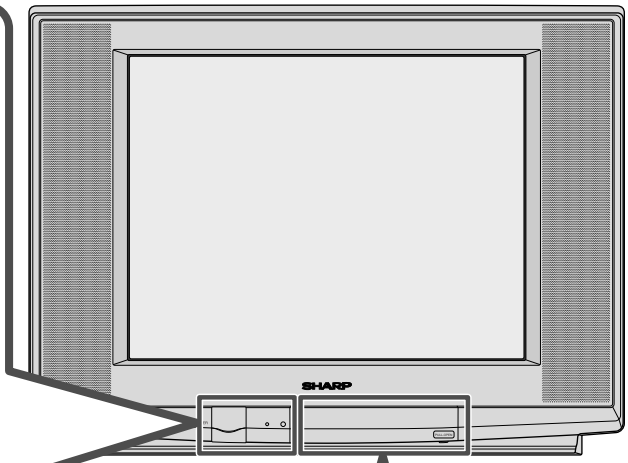
NOTE

- Be sure to match the battery ⊕/⊖ terminals with the ⊕/⊖ marks inside the compartment.
- Remove the batteries if weak or if the unit is not in use for long periods.
- Do not mix old and new batteries.
- Incorrect installation of the batteries may damage the remote control.

TV set

TV front





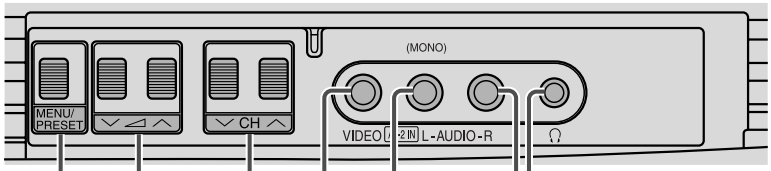
① POWER 8

① POWER switch
Turns on and off the main power.

Power indicator 8
Power can be turned on by the remote control when the indicator is dimly.

Infrared sensor window 6
Receives the infrared wave from the remote control.

Behind the door



MENU/PRESET 12

MENU/PRESET button
Tunes the channels.
Used for MENU setup.

⊿^ / ⊿v 8

Volume up/down buttons
Adjusts the volume.
Makes adjustments in PRESET.

CH ^ / CH v 8

Channel up/down buttons
Selects the channels.
Tunes or sets the channels.

9 Headphone jack
Use to listen to the audio with headphone.

30 Audio input terminals (AV-2)
Connects to a camcorder, video game, etc.

30 Video input terminal (AV-2)
Connects to a camcorder, video game, etc.

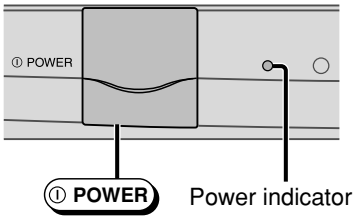
NOTE • When using headphone, see 9 .

Watching TV

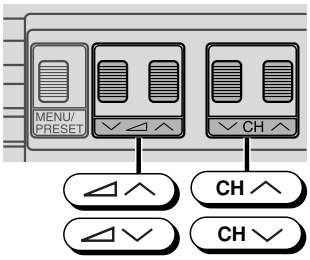
Watching a TV programme

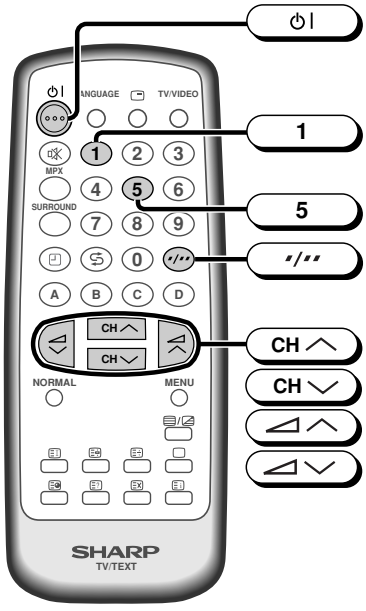
Simple operations for watching a TV programme

TV Set



Behind the door





1 **Turn on power.**

- When the power indicator is off, press POWER.
- When the power indicator lights up dimly, press ⏻I on the remote control. The power indicator changes to bright and a picture appears.

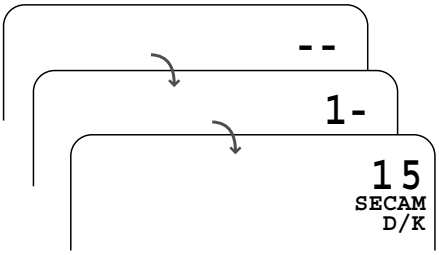
2 **Select channel.**

With CH ∧ / CH ∨

- Press CH ∧ and channels change as shown below.
  1 → 2 → ... → 98 → 99 → AV1 (or COMPONENT) → AV2 → 0 → 1 → 2 ...
- Press CH ∨ and channels change as shown below.
  1 → 0 → AV2 → AV1 (or COMPONENT) → 99 → 98 → ... → 2 → 1 → 0 ...

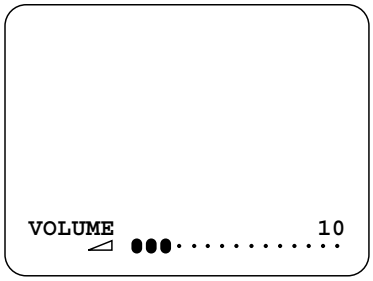
With the number buttons (on remote control)

- To select a one-digit channel, such as 5, press 5.
  If "5-" is indicated, press -/-- to select one-digit input, and then press 5 again.
- To select a two-digit channel, such as 15, press -/-- to select the two-digit input. Press 1, and then press 5.



3 **Adjust volume using ◿ ∧ / ◿ ∨.**

- The number of oval blocks "▮" indicates the volume level. The volume bar disappears approximately three seconds after the volume has been adjusted.



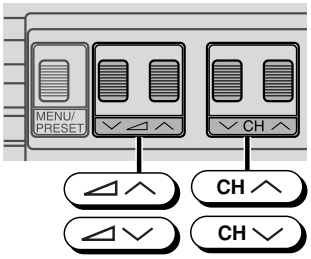
NOTE

- When the power indicator lights up dimly, either CH ∧ / CH ∨ on the TV can be pressed to turn on the power.
- The channel number is displayed in green for channels tuned by auto tuning and displayed in yellow for channels tuned using fine tuning.
- When the power indicator lights up dimly, the TV is in Standby mode and power is still supplied to the TV. If you will not watch TV for a while, turn off the main power by pressing POWER on the TV set. Also, if you will not be at home for a considerable length of time, unplug the cord from the outlet.
- The AV1 (or COMPONENT), AV2 input channels cannot be selected using CH ∧ / CH ∨ on the remote control. Use TV/VIDEO to select these channel.
- Channels that have been skipped cannot be selected by CH ∧ / CH ∨. See 16.
- The on-screen displays in this manual may differ from their actual appearance.

Operating the TV buttons

Simple operation of the TV set

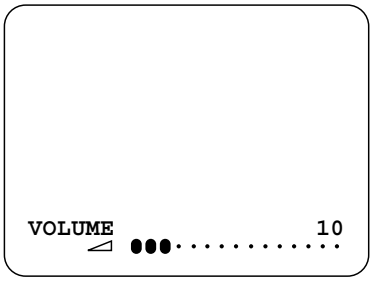
Behind the door



Using ◿^ / ◿v

Press ◿^ to increase volume.

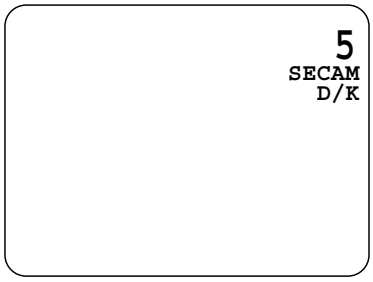
Press ◿v to decrease volume.



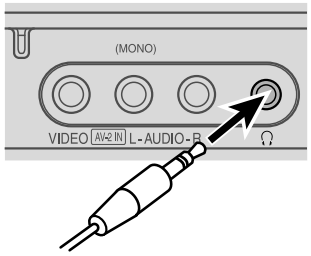
Using CH^ / CHv

Press CH^ to increase channel number.

Press CHv to decrease channel number.



Behind the door



Using headphone

Insert headphone plug into headphone jack to listen to audio with headphone.

• The audio from the speakers is turned off.

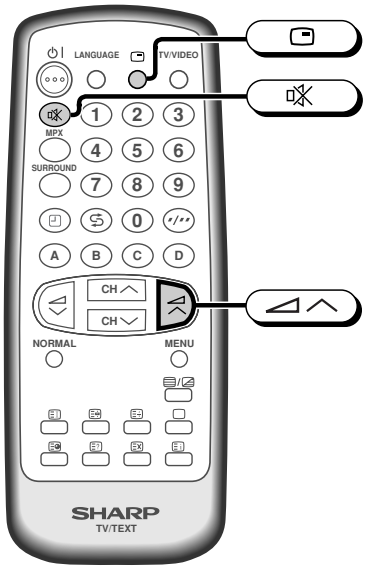
NOTE

- Select an appropriate volume so as not to injure your hearing.
- To avoid injuring your hearing, do not put on the headphone before plugging them into the headphone jack and before the power is turned on.
- The proper impedance for the headphone is 32 ohms.
- Remove the headphone plug from the jack when not using the headphone.

Useful features

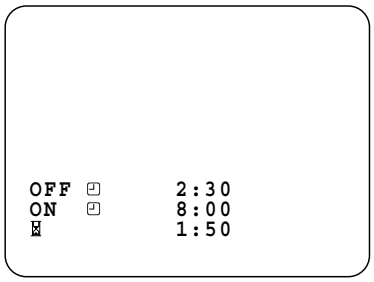
Channel/Timer display

Displays the current channel number, the timer, and other settings on the screen.



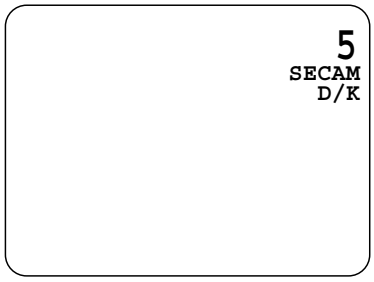
1 **Press** .

- The time remaining on the Off timer, On timer, and Reminder appears on the screen.
- When no timer is set, the channel number, colour and sound system appear on the screen. Press again to clear these current settings display on the screen.



2 **Press again.**

- The channel number, colour and sound system appear on the screen.



3 **Press once again.**

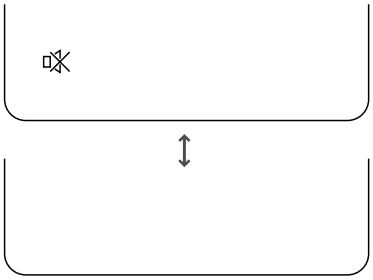
- The display disappears.

Mute

Silences the sound.

1 **Press** .

- "🔇" appears on the screen, and the sound is silenced.



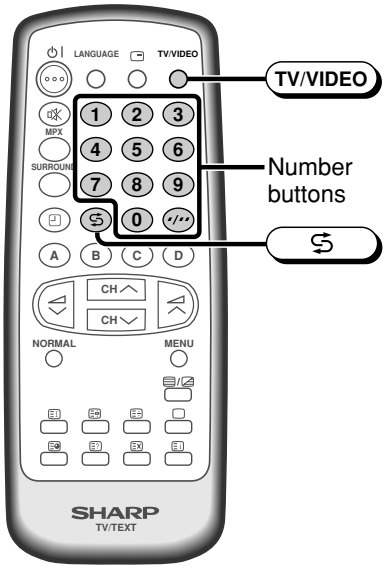
2 **Press again.**

- The volume returns to its previous level.

NOTE • Mute will be cancelled if the is pressed at any time.

Channel recall

Switches back to the channel you were watching just before the current channel.

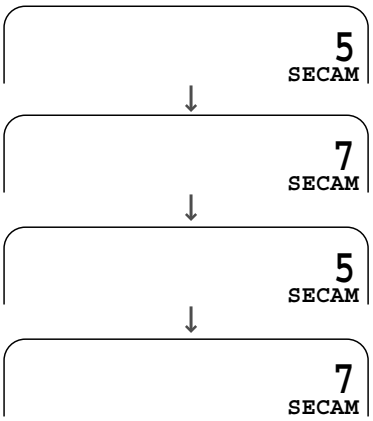


Press ⇆.

• The channel previously viewed returns to the screen.

Example:

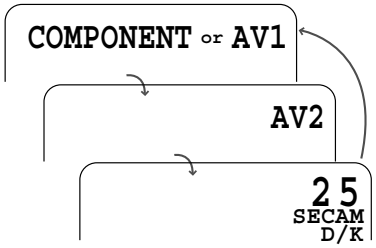
After switching from channel 5 to channel 7, ⇆ is pressed, the channel will change to channel 5. Press ⇆ again to return to channel 7.



TV/Video selection

Switches between TV broadcasts and AV input programmes.

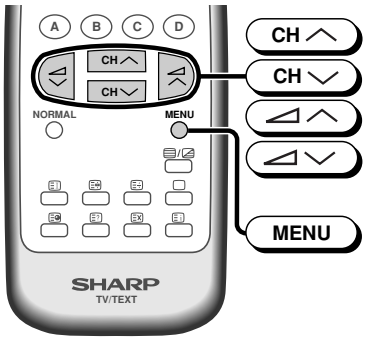
Each time you press the TV/VIDEO, the input switches between AV1 (or COMPONENT), AV2 and TV programme.



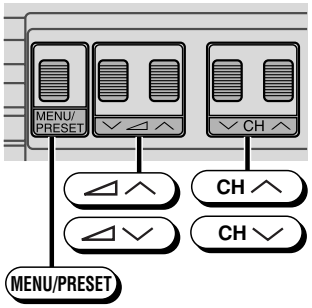
Selecting menu items

This TV set allows you to adjust the picture and sound, and set the channels and other features using the On-screen display with the remote control or from the TV set. Select the desired menu item by following the steps below and then refer to the indicated page for details.

Remote control



Behind the door



Selecting a menu item

1 **Press MENU / MENU/PRESET to call MENU screen.**

```
MENU

◆PICTURE
 SOUND
 FEATURE
 TIMER
 CH-SETTING
```

2 **Press CH ^ / CH v to select desired menu item.**

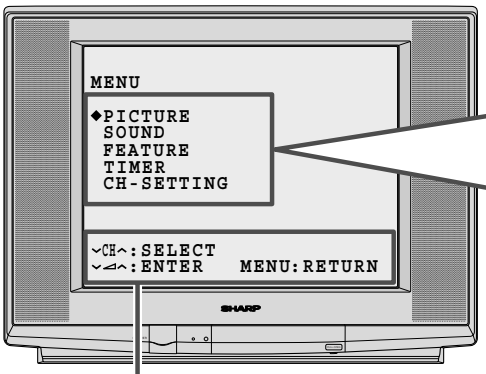
- The selected item is highlighted in yellow.

```
MENU

 PICTURE
◆SOUND
 FEATURE
 TIMER
 CH-SETTING
```

3 **Press ◿^ / ◿v to enter.**

- The corresponding menu screen will appear.

```
SOUND

 SURROUND          OFF
◆TREBLE              0
 BASS                0
 BALANCE             0
```



Operating guide

PICTURE menu ····· 17

```
PICTURE

◆CONTRAST          60
 COLOUR             0
 BRIGHTNESS         0
 TINT
 SHARPNESS          0
 WHITE TEMP      ◆──┼──◇

CH^:SELECT
◿^:ADJUST  MENU:RETURN
```

SOUND menu ····· 18

```
SOUND

◆SURROUND         OFF
 TREBLE             0
 BASS               0
 BALANCE            0

CH^:SELECT
◿^:ADJUST  MENU:RETURN
```

FEATURE menu ····· 19 – 20

```
FEATURE

◆BLUE BACK        OFF
 TEXT              3

CH^:SELECT
◿^:ADJUST  MENU:RETURN
```

TIMER menu ····· 22 – 24

```
TIMER

◆OFF ↵            --:--
 ON  ↵            --:--
  POSITION
  VOLUME
 ⊠                 --:--

CH^:SELECT
◿^:ADJUST  MENU:RETURN
```

CH-SETTING menu ····· 16

```
CH-SETTING

◆POSITION         CH27
 COLOUR           AUTO
 SOUND            D/K
 SKIP             OFF
 FINE          168.25MHz
 NICAM            ON
 A2               ON

CH^:SELECT
◿^:ADJUST  MENU:RETURN
```

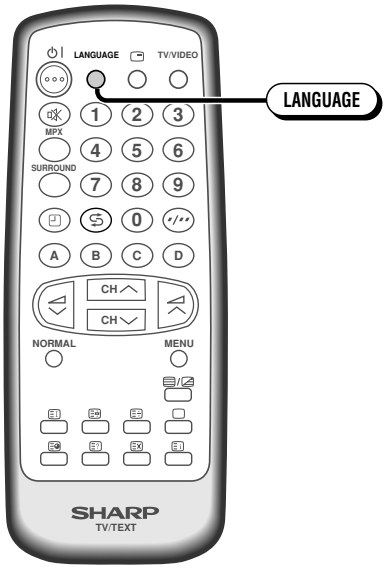
NOTE

- If you press MENU/PRESET for more than two seconds, the LANGUAGE mode screen will appear instead of the MENU screen. To display the MENU screen, press MENU/PRESET until the normal screen appears, then press the button again.
- The procedures for setting and selecting the menu items on the following pages are described using the buttons on the remote control. These procedures can also be performed using the corresponding buttons on the TV set.

Settings and adjustments

On-screen display language selection

The on-screen display language can be set to English or Russian.

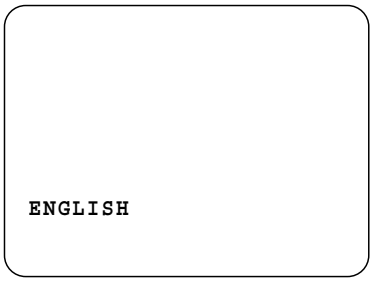


Remote Control

1 **Press LANGUAGE to select desired language.**

• Pressing LANGUAGE changes the language as shown below.

ENGLISH ⟷ РУССКИЙ

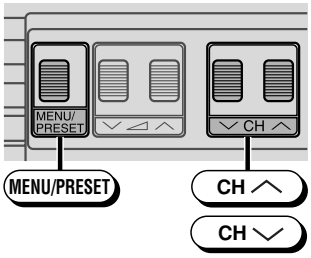


TV set

1 **Press MENU/PRESET for more than two seconds.**

• The language select mode appear.

Behind the door



2 **Press CH ∧ / CH ∨ to select desired language.**

• Pressing MENU/PRESET changes the screen as shown below.

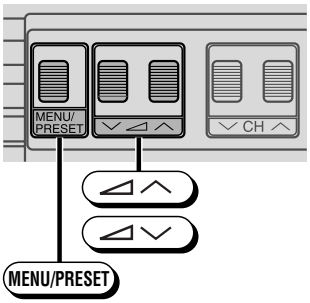
→ Language ⟶ AUTO ⟶ MANUAL
Normal screen ←

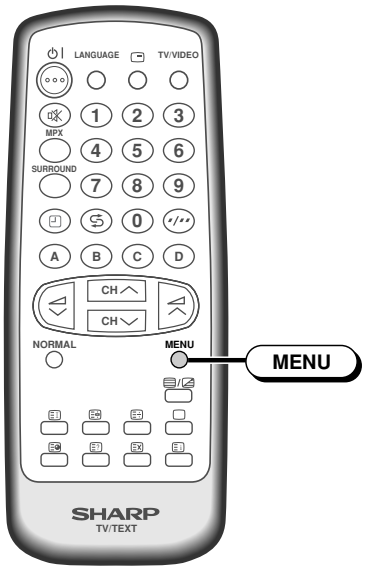
3 **Press MENU/PRESET until normal screen appears.**

Auto channel tuning

Automatically tunes in and presets receivable TV stations.

Behind the door





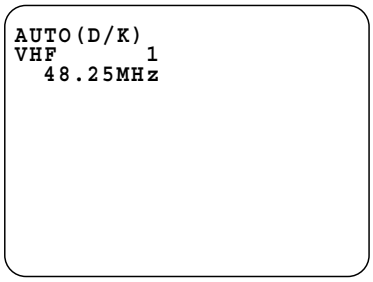
1 **Press (MENU/PRESET) for more than two seconds.**

- The language select mode appear.

2 **Press (MENU/PRESET) again to display AUTO mode screen.**

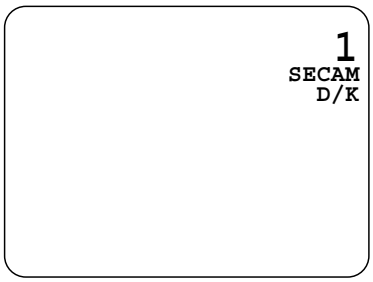
- Pressing (MENU/PRESET) changes the screen as shown below.

→ Language ⟶ AUTO ⟶ MANUAL
Normal screen ←



3 **Press (▲) / (▼) on TV set.**

- All the TV stations in your area that can be received by the TV set are automatically preset between channels 1 to 99.
- The screen shows whatever is on channel 1 when auto channel preset is finished.



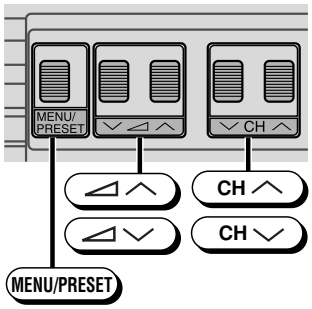
NOTE

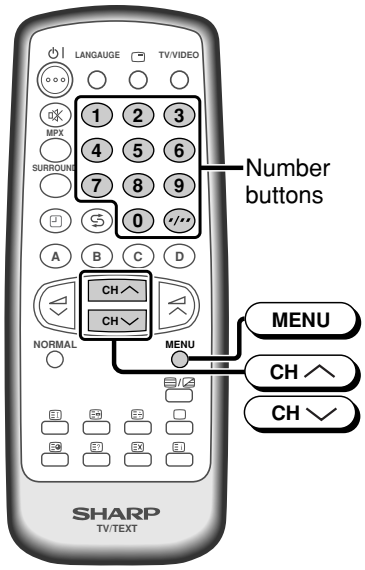
- When starting the AUTO PRESET after setting the SOUND SYSTEM with the (MENU), the SOUND SYSTEM for all the channels are stored into memory.
- AUTO PRESET stores all receivable channels including those which may be very weak and not clearly visible. To preset only those channels designated for the local viewing region, use MANUAL PRESET. See 15.
- Unused channels are automatically skipped.

Manual channel tuning

Enables manual channel tuning to a desired TV station.

Behind the door





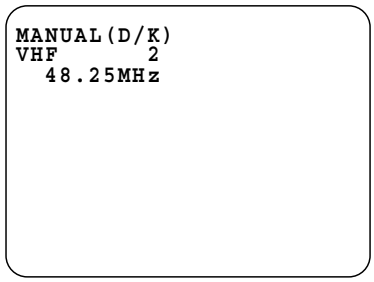
1 **Press MENU/PRESET for more than two seconds.**

• The language select mode appear.

2 **Press MENU/PRESET twice to display MANUAL mode screen.**

• Pressing MENU/PRESET changes the screen as shown below.

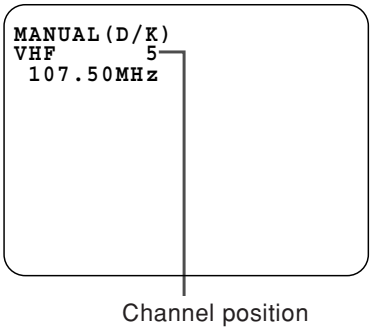
Language → AUTO → MANUAL → Normal screen



3 **Press CH / CH or number buttons to select channel position.**

4 **Press / on TV set to locate channel you wish to preset to current channel position.**

• Search is initiated and when a TV signal is received during the search, the search stops.



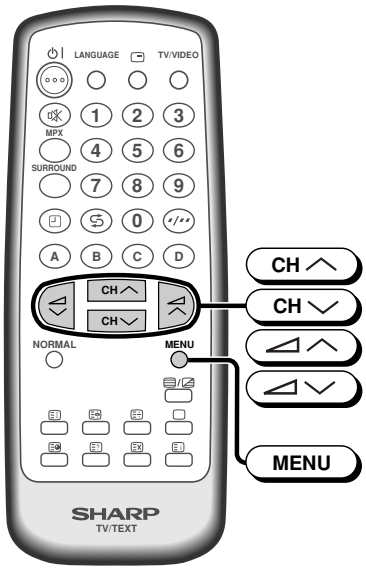
5 **Repeat steps 3 and 4 above, to preset channel positions for other broadcasts.**

6 **Press MENU/PRESET again to display normal screen.**

NOTE • SOUND SYSTEM may not have been set correctly, if noise can be heard or if there is no sound. In such case, adjust the SOUND SYSTEM using the MENU on the remote control.

Channel setting

Enables individual channel setting.



1 Press MENU to call MENU screen.

2 Press CH ∧ / CH ∨ to select "CH-SETTING".

```
MENU

 PICTURE
 SOUND
 FEATURE
 TIMER
◆CH-SETTING
```

3 Press ◿∧ / ◿∨ to display CH-SETTING menu.

4 Press CH ∧ / CH ∨ to select desired setting.

5 Each time you press ◿∧ / ◿∨, setting for individual items changes as follows:

```
CH-SETTING

◆POSITION        CH27
 COLOUR          AUTO
 SOUND           D/K
 SKIP            OFF
 FINE         168.25MHz
 NICAM           ON
 A2              ON

∨CH∧:SELECT
∨◿∧:ADJUST  MENU:RETURN
```

- **POSITION**
  The channel position changes to the higher or lower number.
- **COLOUR**

  AUTO ⟷ PAL ⟷ SECAM ⟷ N443 ⟷ N358 ⟷ AUTO
- **SOUND**

  B/G ⟷ I ⟷ D/K ⟷ M ⟷ B/G
- **SKIP**
  ON ⟷ OFF
  Channel numbers with a "✚" mark on the left are set to SKIP. To turn off SKIP, press the number buttons to select the desired channel and then set "SKIP" to "OFF".
- **FINE**
  The frequency changes to allow fine tuning.
- **NICAM**
  ON (NICAM sound) ⟷ OFF (Monaural TV sound)
- **A2 stereo system**
  ON (A2 stereo sound) ⟷ OFF (Monaural TV sound)

6 Press MENU until normal screen appears.

- When you select AV1, AV2 for the channel position, the CH-SETTING menu changes as shown on the right and the colour mode changes in the following order:

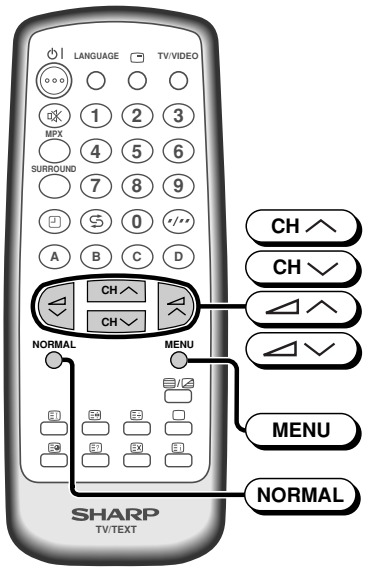
```
CH-SETTING

◆POSITION        AV1
 COLOUR          AUTO

∨CH∧:SELECT
∨◿∧:ADJUST  MENU:RETURN
```

AUTO ⟷ PAL ⟷ SECAM ⟷ N443 ⟷ N358 ⟷ AUTO

NOTE

- Switching COLOUR system:
  Set the system to "AUTO" for normal TV reception. The AUTO mode automatically detects the receiving signal system and changes the reception system of the TV set. When the picture is not stable, switching to an appropriate system may improve the picture quality.
- In a weak reception area, or under bad reception conditions, you can change the frequency by fine tuning.
- When using FINE, the channel number changes from green to yellow.
- To return the channel to its original frequency setting, follow the manual channel tuning procedure.
  See 15.

Picture adjustment



1 Press MENU to call MENU screen.

2 Press CH ∧ / CH ∨ to select "PICTURE".

```
MENU

◆PICTURE
 SOUND
 FEATURE
 TIMER
 CH-SETTING
```

3 Press ◿∧ / ◿∨ to display PICTURE menu.

4 Press CH ∧ / CH ∨ to select adjustment items.

```
PICTURE

◆CONTRAST          50
 COLOUR             0
 BRIGHTNESS       +10
 TINT
 SHARPNESS        -10
 WHITE TEMP       ◆ ⊢●⊣ ◇
```

5 Adjust using ◿∧ / ◿∨.

- Wait for approximately three seconds to return to PICTURE menu.

```
CONTRAST              50
-  ⊢                ●⊣  +
```

6 Repeat steps 4 and 5 above to adjust other items.

7 Press MENU until normal screen appears.

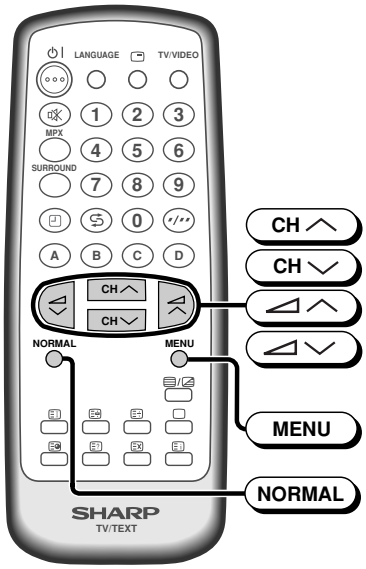
- Pressing NORMAL while a PICTURE selection is displayed, only the selected mode is reset to the standard (factory-setting) position.
- Pressing NORMAL while a PICTURE menu screen is displayed will reset all the items of PICTURE menu to the standard (factory-setting) position.

The following table lists the adjustment items shown in the PICTURE menu and how they change as you press ◿∧ / ◿∨.

Selected item	Press ◿∨		Press ◿∧
CONTRAST	To decrease contrast	- ⊢●⊣ +	To increase contrast
COLOUR	For less colour intensity	- ⊢●⊣ +	For more colour intensity
BRIGHTNESS	For less brightness	- ⊢●⊣ +	For more brightness
TINT*	To move tint toward red	◆ ⊢●⊣ ◇	To move tint toward green
SHARPNESS	For less sharpness	- ⊢●⊣ +	For more sharpness
WHITE TEMP	To more reddish background	◆ ⊢●⊣ ◇	To more bluish background

*: TINT can only be selected and adjusted when receiving NTSC broadcasts.

Sound adjustment



1 Press MENU to call MENU screen.

2 Press CH ∧ / CH ∨ to select "SOUND".

```
MENU

 PICTURE
◆SOUND
 FEATURE
 TIMER
 CH-SETTING
```

3 Press ◿∧ / ◿∨ to display SOUND menu.

4 Press CH ∧ / CH ∨ to select adjustment items.

```
SOUND

 SURROUND          ON
◆TREBLE            +10
 BASS              -20
 BALANCE           R20
```

5 Adjust using ◿∧ / ◿∨.

- Wait for approximately three seconds to return to SOUND menu.

```
TREBLE              +10
-                      +
```

6 Repeat steps 4 and 5 above to adjust other items.

7 Press MENU until normal screen appears.

- Pressing NORMAL while a SOUND selection is displayed, only the selected mode is reset to the standard (factory-setting) position.
- Pressing NORMAL while the SOUND menu screen is displayed will reset all the items of SOUND menu to the standard (factory-setting) position.

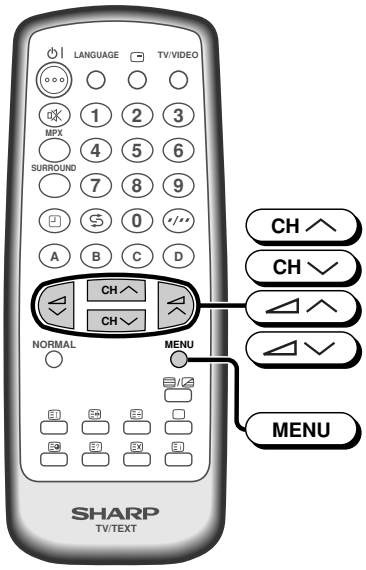
The following table lists the adjustment items shown in the SOUND menu and how they change as you press ◿∧ / ◿∨.

Selected item	Press ◿∨	Press ◿∧
SURROUND*	ON Ⅰ ⟷ ON Ⅱ ⟷ OFF	
TREBLE	To decrease treble	To increase treble
BASS	To decrease bass	To increase bass
BALANCE	To shift balance toward left	To shift balance toward right

*: SURROUND mode can be set to "ON Ⅰ", "ON Ⅱ" or "OFF". See 21.

Blue screen

Automatically turns the screen blue if a broadcast signal is not received.



1 Press MENU to call MENU screen.

2 Press CH ∧ / CH ∨ to select “FEATURE ”.

```
MENU

 PICTURE
 SOUND
◆FEATURE
 TIMER
 CH-SETTING


∨CH∧:SELECT
∨◿∧:ENTER    MENU:RETURN
```

3 Press ◿∧ / ◿∨ to display FEATURE menu.

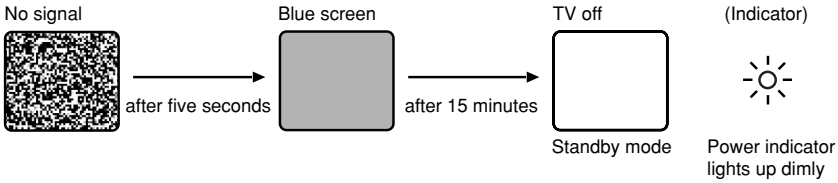
4 Press CH ∧ / CH ∨ to select “BLUE BACK”.

5 Press ◿∧ / ◿∨ to select “ON” or “OFF”.

```
FEATURE

◆BLUE BACK       OFF
 TEXT            3




∨CH∧:SELECT
∨◿∧:ADJUST   MENU:RETURN
```

6 Press MENU until normal screen appears.

When BLUE BACK is set to “ON”

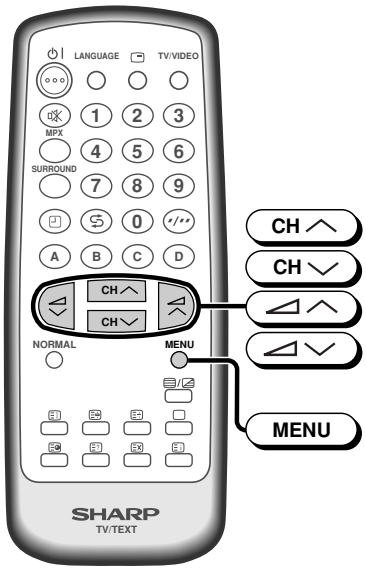


NOTE

- Poor reception due to weak signals and too much noise may activate BLUE BACK, despite the presence of a broadcast signal. To continue watching TV under these conditions, switch “BLUE BACK” to “OFF”.
- When Off timer is set, the OFF TIMER setting has priority over BLUE BACK.

Text

This function for you to select the language of Teletext which fit your country.



1 Press MENU to call MENU screen.

2 Press CH ∧ / CH ∨ to select "FEATURE".

```
MENU

  PICTURE
  SOUND
◆FEATURE
  TIMER
  CH-SETTING
```

3 Press ◿∧ / ◿∨ to display FEATURE menu.

4 Press CH ∧ / CH ∨ to select "TEXT".

5 Press ◿∧ / ◿∨ to select "1", "2", "3", "4", "5" or "6".

```
FEATURE

  BLUE BACK        OFF
◆TEXT              3




∨CH∧:SELECT
∨◿∧:ADJUST  MENU:RETURN
```

6 Press MENU until normal screen appears.

See the following tables to select the TEXT-No. which fit your country.

Country	Language Use	TEXT-No.
Australia	English	1
Hong Kong	English	1
Indonesia	English	1
Malaysia	English	1
Malta	English	1
New Zealand	English	1
Singapore	English	1
South Africa	English	1
UK	English	1
Thailand	English/Thai*	1
Austria	German	1
Germany	German	1
Holland	German	1
Denmark	Swedish	1
Finland	Swedish	1
Norway	Swedish	1
Sweden	Swedish	1
Italy	Italian	1
France	French	1
Belgium	French/German	1
Switzerland	French/German/Italian	1
Iceland	Spanish	1
Portugal	Spanish	1
Spain	Spanish	1
Croatia	Latin (Serbo-Croat)	2

* Thai language not support.

Country	Language Use	TEXT-No.
Czech Republic	Czech	2
Romania	Romanian	2
Poland	Polish	3
Estonia	Estonian	3
Latvia	Lettish	3
Lithuanian	Lettish	3
Bulgaria	Russian Cyrillic	3
Russia	Russian Cyrillic	3
Serbia	Cyrillic	3
Turkey	Turkish	5
Cyprus	Greek	5
Greece	Greek	5
U.A.E.	Arabic/English	6
Jordan	Arabic/English	6
Kuwait	Arabic/English	6
Oman	Arabic/English	6
Qatar	Arabic/English	6
Sharjah	Arabic/English	6
Libya	Arabic/(English)	6
Egypt	Arabic/French	6

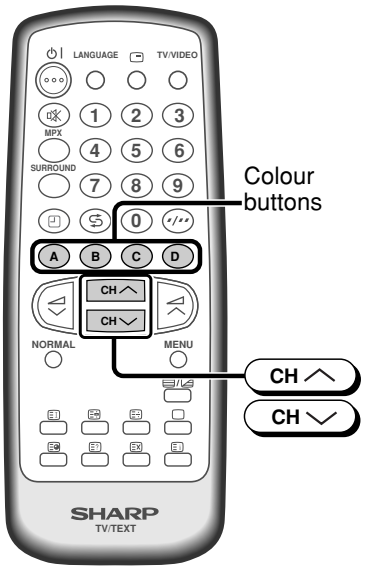
Countries which do not support teletext

Country	Language Use	TEXT-No.
Hungary	Hungarian	–
Iran	Farsi	–
Israel	Hebrew	–

NOTE
- This list above is showing the Teletext language use in the world, but it is not assured that standard regulation of above listed country is satisfied.
- Then some of this TV function cannot be operated for the above listed country.

Favourite channels

The colour buttons can be used to select up to four favourite channels.



1 **Press CH / CH to select your favourite channel. (e.g. Channel 12)**

2 **Press A, for example, until channel number turns to white.**

- The display will disappear after three seconds, and then the selected channel is preset.

12
Displayed in green or yellow

3 **To watch favourite channel, press A.**

- The preset favourite channel will be displayed. (e.g. Channel 12)

12
Turns to white

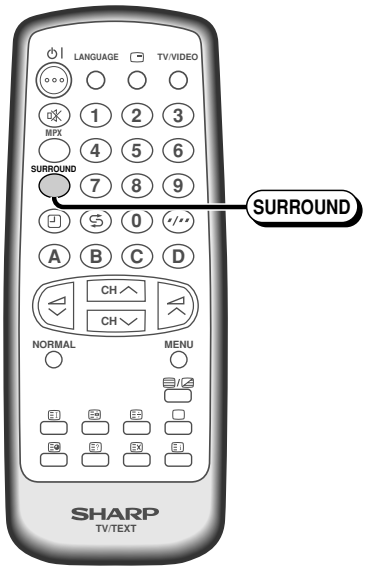
4 **To preset another favourite channel, repeat steps 1 and 2 above.**

- To change a preset favourite channel, repeat steps 1 and 2 above.

12

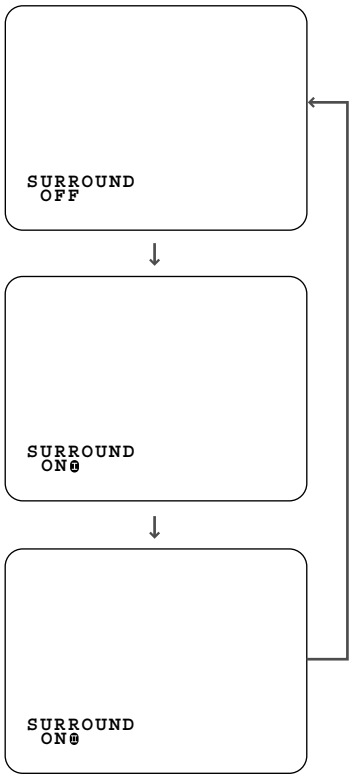
Surround sound

Produces a virtual surround sound from the TV's speakers.



Each time you press SURROUND, the mode changes between ON I, ON II and OFF.

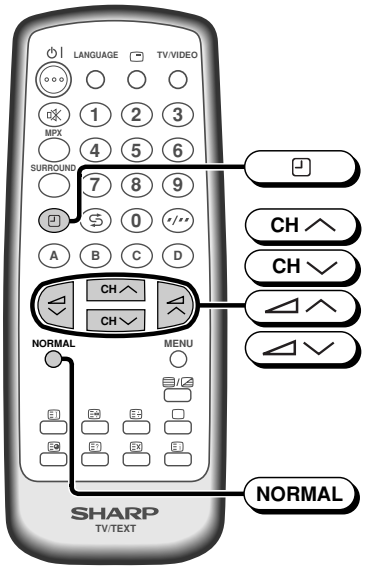
OFF: Produces normal sound.
ON I : Setting to this mode during stereo signal reception produces a spacious sound, making the most of the speakers' performance.
ON II : Setting to this mode during monaural signal reception creates monaural sound that is similar to stereophonic sound.



NOTE • The surround effect can be adjusted using the SOUND menu. See 18.

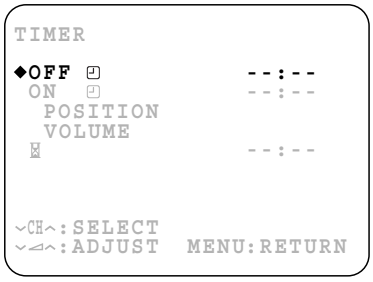
Off timer

Automatically turns power off after a set length of time has passed.



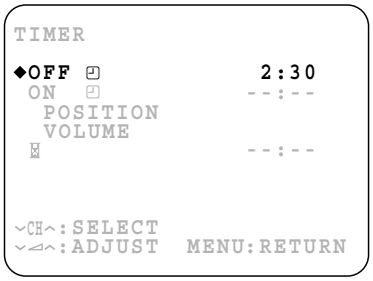
1 **Press ⏎ to display TIMER screen.**

2 **Press CH ∧ / CH ∨ to select "OFF ⏎ ".**



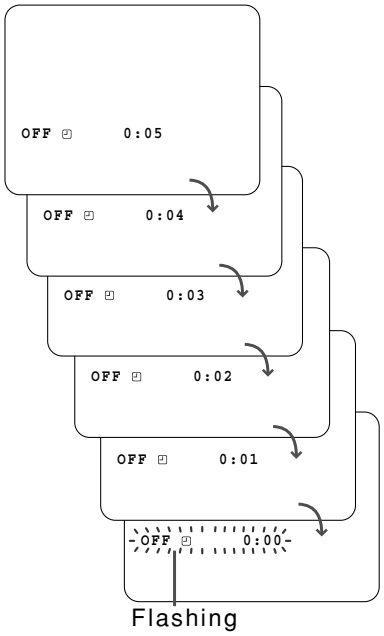
3 **Press ◿∧ / ◿∨ to set time for TV to turn off.**

- Maximum time that can be preset is 12 hours and 50 minutes.
- As soon as the time is entered, the timer starts to count down.



4 **Press ⏎ until normal screen appears.**

- Five minutes before the preset length of time expires (in the example, after two hours and 25 minutes), the remaining time appears on the screen for several seconds.
- A flashing display of the remaining time appears during the last few seconds.
- When the preset length of time has passed, the TV set enters the Standby mode.

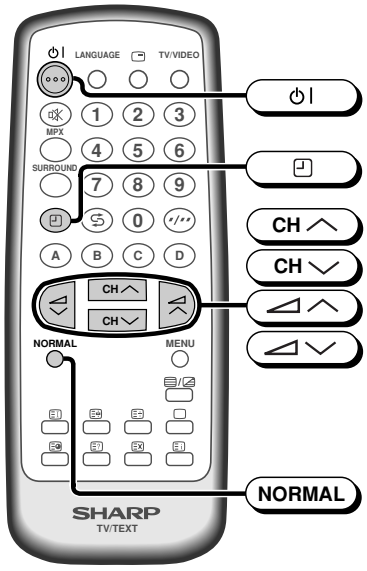


NOTE

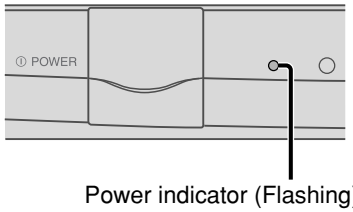
- To cancel the timer setting, press NORMAL when "◆" is displayed on the left of "OFF ⏎" so as to set the timer to "- - : - -".
- The timer can be set in ten-minute intervals.
- The Off timer is cancelled if the power is turned off or set to the Standby mode using ⏻I on the remote control or ⏻POWER on the TV set, or if the power is otherwise interrupted.

On timer

Automatically turns power on after a set length of time has passed.



TV Set



Power indicator (Flashing)

1 Press ⏎ to display TIMER screen.

2 Press CH ∧ / CH ∨ to select "ON ⏎ ".

3 Press ◿∧ / ◿∨ to set time for TV to turn on.

- Maximum time that can be preset is 12 hours and 50 minutes.
- As soon as the time is entered, the timer starts to count down.

```
TIMER
 OFF ⏎              --:--
◆ON  ⏎              --:--
  POSITION
  VOLUME
 ⧖                  --:--
```

```
TIMER
 OFF ⏎              --:--
◆ON  ⏎               8:00
  POSITION            --
  VOLUME              --
 ⧖                  --:--


∨CH∧:SELECT
∨◿∧:ADJUST  MENU:RETURN
```

4 Press CH ∧ / CH ∨ to select "POSITION".

5 Press ◿∧ / ◿∨ to set the channel.

```
TIMER
 OFF ⏎              --:--
 ON  ⏎               8:00
◆ POSITION          CH28
  VOLUME              --
 ⧖                  --:--


∨CH∧:SELECT
∨◿∧:ADJUST  MENU:RETURN
```

6 Press CH ∧ / CH ∨ to select "VOLUME".

7 Press ◿∧ / ◿∨ to set volume.

8 Press ⏎ until normal screen appears.

9 Press ⏻ to put TV set into Standby mode.

```
TIMER
 OFF ⏎              --:--
 ON  ⏎               8:00
  POSITION          CH28
◆ VOLUME              20
 ⧖                  --:--


∨CH∧:SELECT
∨◿∧:ADJUST  MENU:RETURN
```

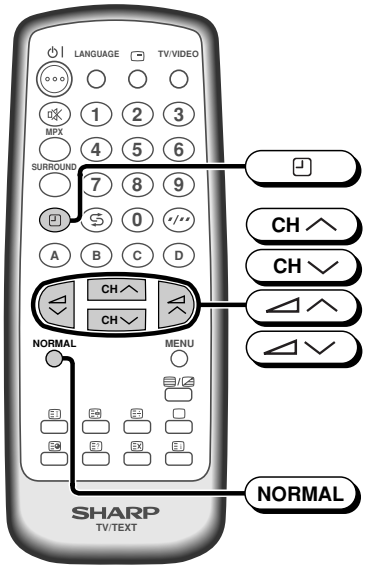
- Power indicator will flash to indicate On Timer is set.
- When the preset length of time (in the above example, eight hours) has passed, the power turns on and a picture appears on the screen.
- The ON TIMER speaker volume gradually increases from zero to preset volume.

NOTE

- To cancel the timer setting, press NORMAL when "◆" is displayed on the left of "ON ⏎" so as to set the timer to "- - : - -".
- The timer can be set in ten-minute intervals.
- The On Timer is cancelled if the power is turned off using ⏻POWER.
- If the TV set is turned on by the On Timer, then the TV set will be automatically turned off in two hours if no buttons are pressed on the TV set or remote control.

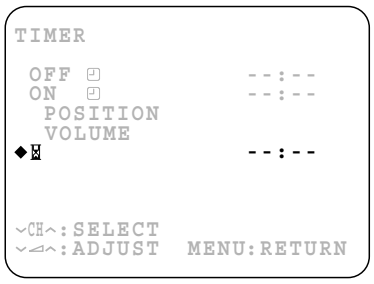
Reminder on-screen timer

Lets you know when a preset length of time has passed by displaying a countdown timer on the screen. This is useful for timer cooking while you watch TV.



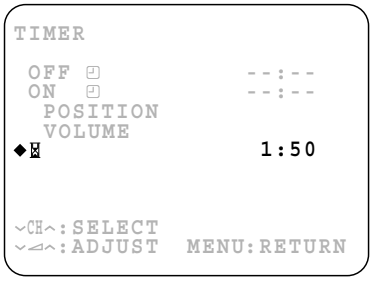
1 **Press ⏎ to display TIMER screen.**

2 **Press CH ∧ / CH ∨ to select "⧗".**



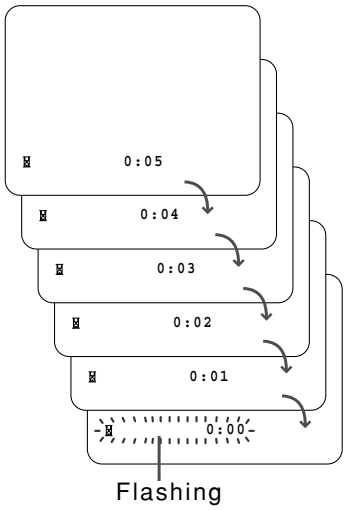
3 **Press ◿∧ / ◿∨ to set time.**

- Maximum time that can be preset is 12 hours and 50 minutes.
- The right example shows that the Reminder will be activated after one hour 50 minutes.



4 **Press ⏎ until normal screen appears.**

- Five minutes before the preset length of time expires (in the example, after one hour and 45 minutes) and each minute thereafter, the remaining time appears on the screen for several seconds.
- When the preset length of time has passed, "⧗ 0:00" flashes in red.



NOTE

- This function also works in the Standby mode. Power is automatically turned on five minutes before the preset length of time expires. The TV set automatically returns to the Standby mode approximately 1 minute after the timer expired if no buttons are pressed on the TV set or remote control.
- The Reminder is cancelled if ⏻POWER on the TV set is pressed or if the power is otherwise interrupted.
- The timer can be set in ten-minute intervals.
- To cancel the timer setting, press NORMAL when "◆" is displayed on the left of "⧗" so as to set the timer to "- - : - -".

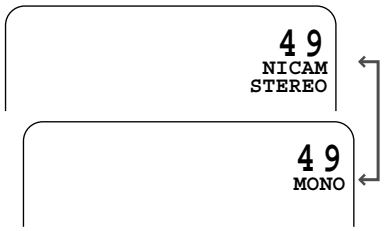
Broadcast features

NICAM broadcasts

Enables selection of reception mode when receiving a NICAM-I, -B/G, or -D/K signal.

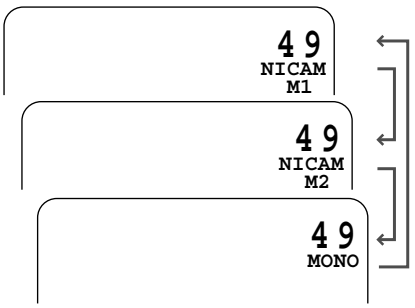
Stereo

Each time you press MPX, the mode switches between STEREO and MONO.



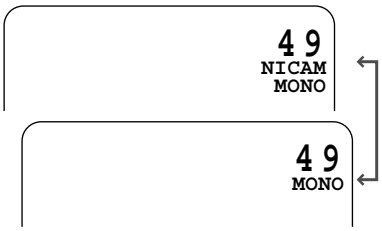
Bilingual

Each time you press MPX, the mode switches between M1 (main sound), M2 (sub sound), and MONO.

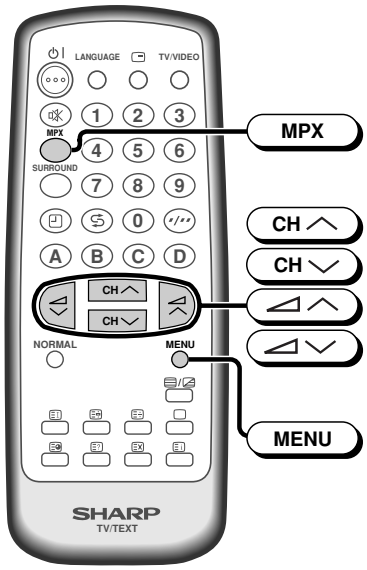


Monaural

Each time you press MPX, the mode switches between NICAM MONO and MONO.



If the sound quality is poor due to a weak signal or other problems during NICAM broadcast reception, set "NICAM" to "OFF" to change the TV sound to monaural.



1 Press MENU to call MENU screen.

2 Press CH ∧ / CH ∨ to select "CH-SETTING".

3 Press ◿∧ / ◿∨ to display CH-SETTING menu.

4 Press CH ∧ / CH ∨ to select "NICAM".

5 Press ◿∧ / ◿∨ to select "OFF".

```
CH-SETTING

POSITION            CH27
COLOUR              AUTO
SOUND               D/K
SKIP                OFF
FINE          168.25MHz
◆NICAM              OFF
 A2                 ON

∨CH∧:SELECT
∨◿∧:ADJUST  MENU:RETURN
```

6 Press MENU twice to display normal screen.

- When set to "OFF", the TV sound is output in monaural (▼).

```
15
NICAM
▼
```

NOTE

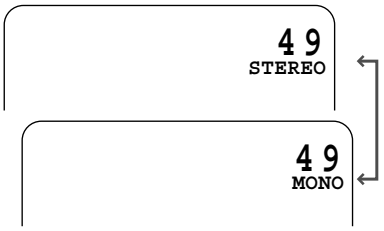
- When "NICAM" in set to "OFF" on the CH-SETTING menu, MPX cannot be used to change the audio mode (stereo and bilingual settings).
- The setting can be selected individually for each channel position.
- NICAM-I: National and regional broadcast system used in the UK and Hong Kong.
- NICAM-B/G: National and regional broadcast system used in Singapore, Malaysia and New Zealand.
- NICAM-D/K: National and regional broadcast system used in Russia and China.

A2 stereo system broadcasts

Enables selection of reception mode when receiving an A2 stereo signal (B/G).

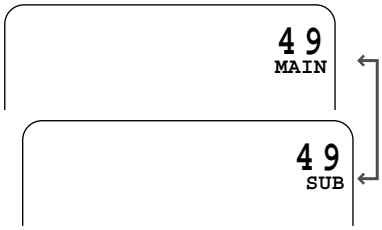
Stereo

Each time you press MPX, the mode switches between STEREO and MONO.

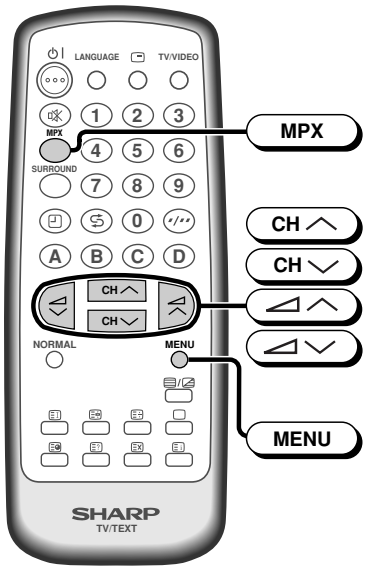


Bilingual

Each time you press MPX, the mode switches between MAIN or SUB.



If the sound quality is poor due to a weak signal or other problems during A2 stereo broadcast reception, set "A2" to "OFF" to change the TV sound to monaural.



1 Press MENU to call MENU screen.

2 Press CH ∧ / CH ∨ to select "CH-SETTING".

3 Press ◿∧ / ◿∨ to display CH-SETTING menu.

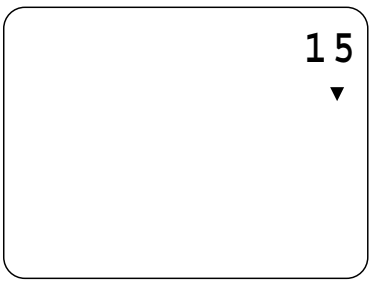
4 Press CH ∧ / CH ∨ to select "A2".

5 Press ◿∧ / ◿∨ to select "OFF".

```
CH-SETTING

POSITION            CH27
COLOUR              AUTO
SOUND               D/K
SKIP                OFF
FINE           168.25MHz
NICAM               ON
◆A2                 OFF

∨CH∧:SELECT
∨◿∧:ADJUST  MENU:RETURN
```

6 Press MENU twice to display normal screen.

- When set to "OFF", the TV sound is output in monaural (▼).



NOTE

- When "A2" is set to "OFF" on the CH-SETTING menu, MPX cannot be used to change the audio mode (stereo and bilingual settings).
- The setting can be selected individually for each channel position.
- A2 stereo-B/G: National and regional broadcast system used in Malaysia, Thailand and Australia.

Teletext broadcasts

Colour buttons (A, B, C, D)

- If link-page data are transmitted from the TV station, each link-page can be viewed using the **Colour** buttons.
- If no link-page data are transmitted, pressing a **Colour** button selects the following pages, respectively:

Example:

If the transmitted pages are P100, P101, P103, P105 and P110, and the current page is P101.

RED (A): From current page jump to the next transmitted page (eg. P103).
GREEN (B): From current page jump to second transmitted page (eg. P105).
YELLOW (C): From current page jump to the third transmitted page (eg. P110).
CYAN (D): From current page jump to previous transmitted page (eg. P100).

NOTE

- When using this function, please wait for approximately 30 seconds to set, after the channel is selected.
- The transmitted page can be selected by pressing CH ∧ or CH ∨.

Text Page Selectors (0–9)

- While the TV is in Text, Mix, or Cancel mode, the **number** buttons (0-9) can be used to directly select a page of the Teletext broadcast that has a 3-digit number.

(Hold button)

- Press to freeze the Teletext image presently on the screen.
- Press again to turn off Freeze mode.

(Index button)

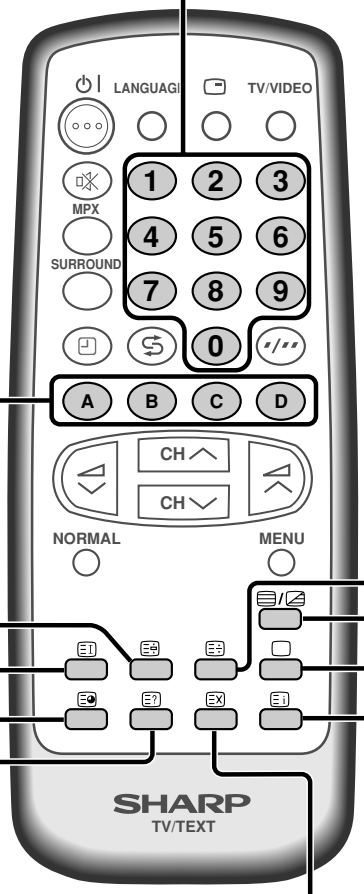
- Press to display the index page.

(Time button)

- While the TV is in Text, Mix, or Cancel mode, use to specify the subcode (S****) for Teletext pages transmitted in Multi-page mode.
  Enter the desired subcode using the **numeric** buttons (0-9).
- If the TV station currently being viewed is broadcasting Teletext, the present-time information can be displayed on the screen by pressing .

(Reveal button)

- Press to display hidden information, such as the answers to a quiz.
- Press a second time to hide the displayed information.
- Press a third time to return to the start of the sequence.



(Cancel button)

- Press to return to TV mode, and the **number** buttons (0-9) and **Colour** buttons to select Teletext pages.

(Top/Bottom/Full button)

- Press to enlarge the top half of the Teletext image presently on the screen.
- Press a second time to enlarge the bottom half of the Teletext image presently on the screen.
- Press a third time to restore the regular Teletext image.
- Press a fourth time to return to the start of the sequence.

(Text/Mix button)

- Press to display the initial page of a Teletext broadcast.
- Press again to simultaneously display the TV picture and Teletext in a mix screen format.

(Picture button)

- Press when in Teletext, Mix or Cancel mode to return to TV mode. If is pressed next, the previous page of the Teletext broadcast is re-displayed.

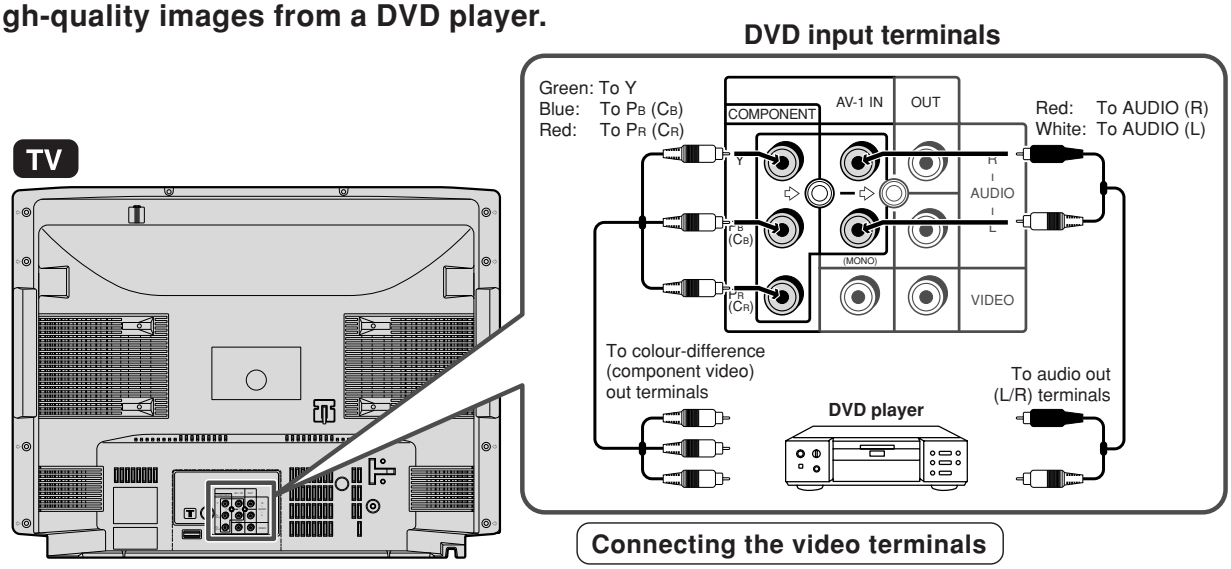
(Reset button)

- Press to return to TV mode.
  If is pressed next, the initial page of the Teletext broadcast is re-displayed.

Connections

Connecting to a DVD player

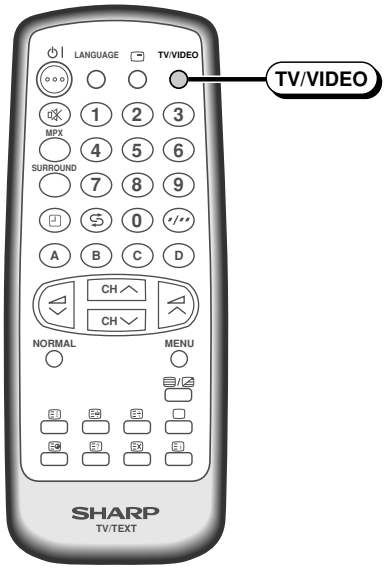
The DVD input terminals (COMPONENT-IN) on the rear of the TV can be used to input high-quality images from a DVD player.



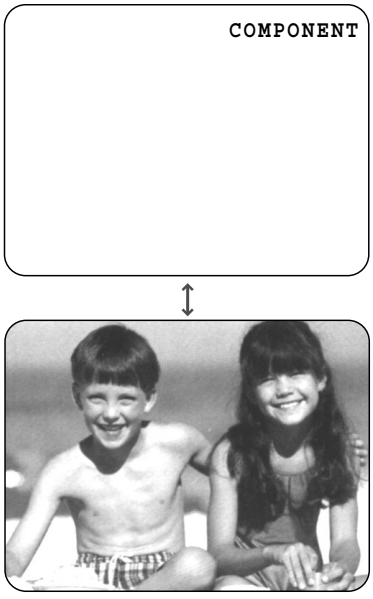
Connecting the video terminals

DVD input terminals		DVD player
COMPONENT-IN VIDEO	Y	Y or Y/Y
	PB(CB)	PB(CB) or B-Y/Pb
	PR(CR)	PR(CR) or R-Y/Pr

Watching DVD Playback



1 **Press (TV/VIDEO) to select "COMPONENT", DVD input screen.**



2 **Turn on the DVD player and begin playback.**

NOTE

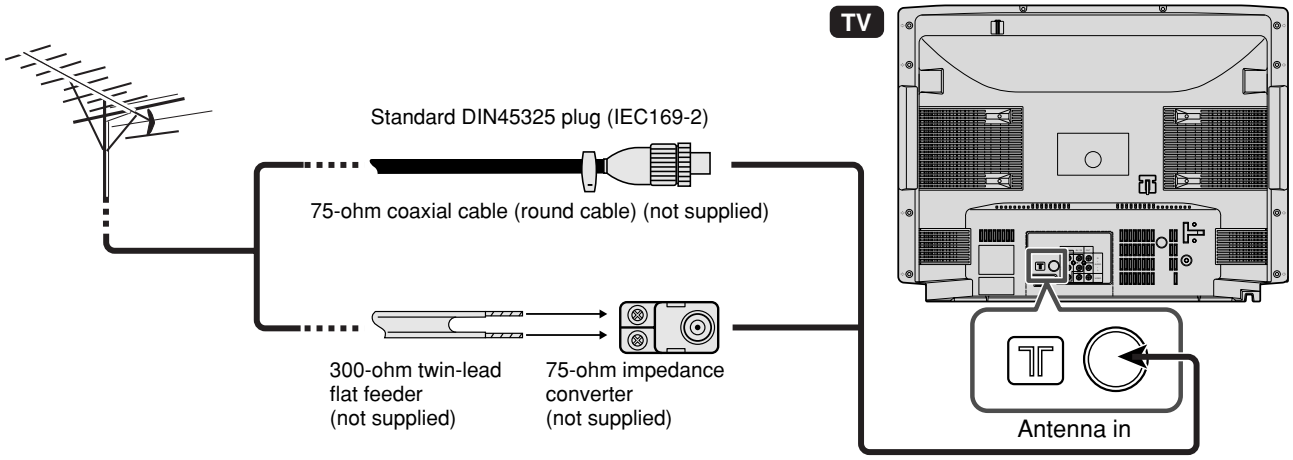
- When connecting the TV to a DVD player via the Component-in terminals, the video and audio from the DVD player cannot be output through the Audio/Video out terminals on the TV.
- Please refer to the operation manual of your DVD player for more information.
- Be sure to fully insert the plugs of the connecting cables into the terminals on the TV set and video equipment. Failure to do so may result in noise.
- Before connecting the cables, turn off the power of the TV set and video equipment.
- Always remove the cables from the terminals by the plugs and not the cables themselves.

Connecting to an antenna

To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for coaxial and feeder cables.

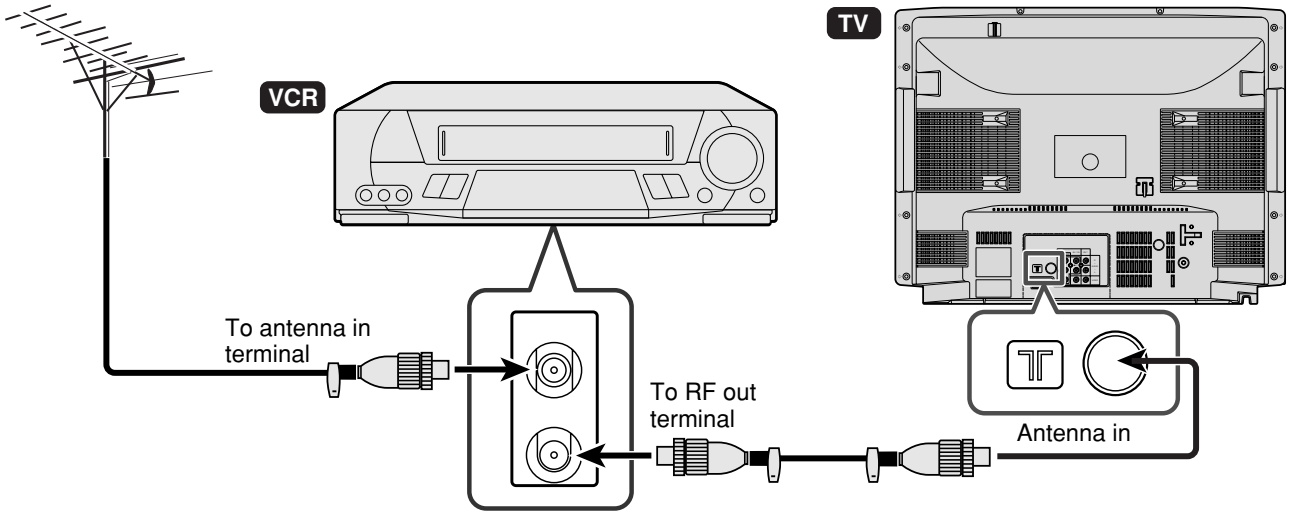
If your outdoor antenna uses a 75-ohm coaxial cable with a standard DIN45325 plug (IEC 169-2), plug it into the antenna jack at the rear of the set.

If your outdoor antenna uses a 300-ohm twin-lead flat feeder, connect a 300-ohm to 75-ohm impedance converter and plug it into the antenna jack at the rear of the set.


TV
Standard DIN45325 plug (IEC169-2)
75-ohm coaxial cable (round cable) (not supplied)
300-ohm twin-lead flat feeder (not supplied)
75-ohm impedance converter (not supplied)
Antenna in

Connecting to an antenna via a VCR

You can also connect the TV set to the tuner on a VCR using the connection shown below.



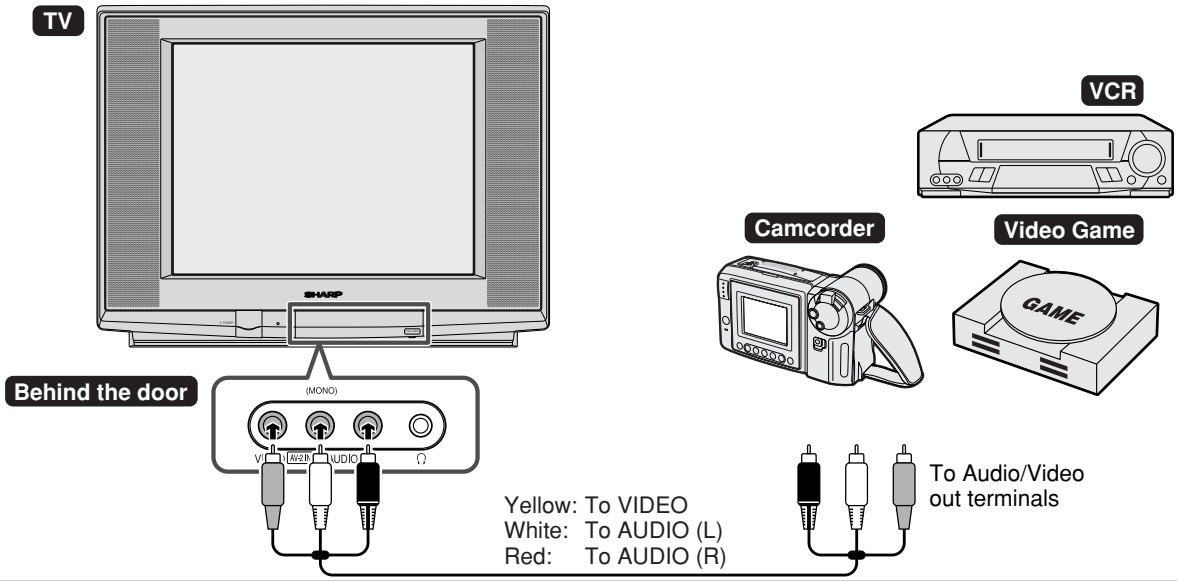
NOTE

- When using the RF terminal connection, set the TV to channel zero to make initial adjustments for the VCR.
- Turn off the power on the TV set and the VCR being connected before making the above connections. Be sure the cord plugs are fully inserted in the connection terminals.
- See the operation manual of your VCR for connection details.

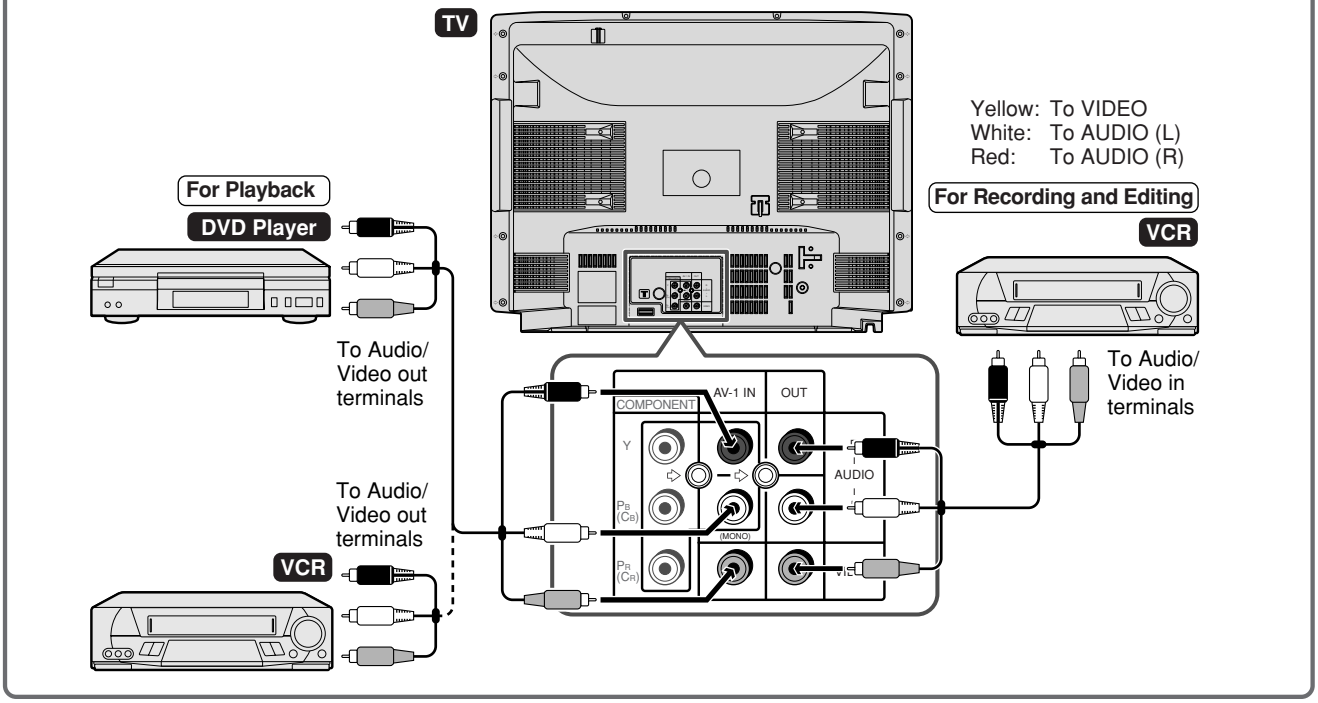
Connecting to video equipment

Enjoy playback from a video disc player, VCR or other video equipment by connecting them to this TV set using the Audio/Video in terminals.

Example use of front terminals



Example use of rear terminals



NOTE

- Turn off the power on the TV set and the VCR being connected before making the above connections. Be sure the cord plugs are fully inserted in the connection terminals.
- For playback of monaural audio, connect the external source to the audio input left terminal on the front or rear of the TV set (MONO) to hear the same sound from both speakers.
- The audiovisual cords required to connect the TV set with video equipment may differ from those shown in the above diagram. See the operation manual of your video equipment for connection details.
- The above recording and editing connections are for intended solely for personal use and not for the illegal copying of audiovisual material protected by copyright laws.

Troubleshooting

The following problems do not always indicate a hardware failure. Therefore, please use the troubleshooting guide below before calling for repair service.
If, after following the guide none of the remedies work, unplug the TV set and call for service.

Quick Service Check List / Problems → / Possible Causes/Remedies ↓	Remote control does not work.	Bars on screen	Picture distorted.	Picture rolls vertically.	No colour	Poor reception on some channels	Picture weak.	Picture lines or streaks	Picture ghosting	Picture blurred.	Sound OK, picture poor.	Picture OK, sound poor.	No picture or sound
Try a new channel to check for possible station trouble.			●	●	●	●	●	●	●	●	●	●	●
TV not plugged in. Outlet power OFF.	●												●
⏻ **POWER** switch of TV not ON.	●												●
Antenna not connected to terminal at the back of the TV set.					●	●	●		●		●		●
If outside antenna is used, check for broken wires.		●	●	●	●	●	●	●	●	●	●		●
Check for local interference.		●		●		●		●	●		●	●	
Turn OFF using the ⏻ **POWER** switch, then turn ON again after a minute.	●												●
Adjust COLOUR control.					●		●				●		
Check batteries in the remote control.	●												
Try fine tuning to correct.			●		●		●			●	●		
Contrast setting in picture mode might be all the way to the minus side. Press the **NORMAL** button on the remote control to correct.											●		●
Increase the volume.												●	●

NOTE • This unit is equipped with a microprocessor. Its performance could be adversely affected by external electrical noise or interference. If this should happen, unplug the unit and plug it in again after a few minutes.

Specifications

MODEL			21H-FG5RU	
Receiving System			World multi 21 system	
	TV Broadcasts/ VCR Playback		PAL-I PAL-B/G PAL-D/K	SECAM-B/G SECAM D/K, K1 NTSC-M (NTSC standard)
	VCR Playback		NTSC 4.43/5.5 MHz/60 Hz NTSC 4.43/6.0 MHz/60 Hz NTSC 4.43/6.5 MHz/60 Hz NTSC 4.43/5.5 MHz/50 Hz NTSC 4.43/6.0 MHz/50 Hz NTSC 4.43/6.5 MHz/50 Hz	NTSC 3.58/5.5 MHz NTSC 3.58/6.0 MHz NTSC 3.58/6.5 MHz SECAM-I (6.0 MHz)
	VCR Playback (Using Video-in terminals)		SECAM-L (French SECAM)	
	Laserdisc Player Playback (Using RF-in terminals)		PAL 5.5 MHz/60 Hz PAL 6.0 MHz/60 Hz PAL 6.5 MHz/60 Hz NTSC 3.58/4.5 MHz/50 Hz	
	Stereo Broadcast		NICAM-I, -B/G, -D/K, A2 stereo-B/G	
Reception Channels				
	PAL-B/G SECAM-B/G	VHF	E2–E12 ch	
		UHF	E21–E69 ch	
	PAL-D/K SECAM-D/K, K1	VHF	C1–C12 ch, R1–R12 ch	
		UHF	C13–C57 ch, R21–R69 ch	
	PAL-I	VHF	B–J ch	
		UHF	21–69 ch (Hong Kong)	
	NTSC	VHF	2–13 ch (U.S.), 1–12 ch (Japan)	
		UHF	14–69 ch (U.S.), 13–62 ch (Japan)	
	CATV		S1–S20 ch, S21–S41 ch (Hyper)	
Receiving Frequency			48.25 MHz – 863.25 MHz	
Teletext Language			Multi Language	
Channel Tuning			100-Channel Electronic Tuner with Full Auto Tuning System	
Picture Tube			21-Inch Flat CRT	
Terminals			Audio/video input × 2 (front × 1, rear × 1) , DVD input (COMPONENT-IN) × 1 (rear) Audio/video output × 1 (rear) , Headphone jack × 1 (front)	
Sound Output			7.5 W (RMS) × 2, total 15 W (RMS)	
Power Source			AC 220 – 240V, 50/60 Hz	
Power Consumption			115 W	
Dimensions			618 (W) × 471 (H) × 485 (D) mm	
Weight			25.5 kg (Approx.)	

NOTE

- Design and specifications are subject to change without notice.
- Receiving system: These receiving systems, encompassing all currently available technology, include those with planned broadcast, videotape and laserdisc hardware and software.
- Reception channels: Some examples of the main receivable channels are shown above.

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